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ABSTRACT:

PROBLEM TO BE SOLVED: To provide an optical fiber amplifier of low noise and wide band width.

SOLUTION: An optical fiber amplifier is composed of optical amplifying fibers which are loaded with rare earth ions and connected together in series or parallel, wherein the optical amplifying fiber is formed of fluoride optical fiber, tellurite fiber, chalcogenide fiber or quartz fiber. Or, a first amplifying optical fiber 11 and a second amplifying optical

fiber 12 both loaded with rare earth ions are connected in series through the intermediary of an isolator 3, the first amplifying optical fiber 11 is positioned on the upper side of the isolator 3 in the traveling direction of signal light, and the second amplifying optical fiber 12 is positioned on the lower side of the isolator 3 in the traveling direction of signal light, the first amplifying optical fiber 11 is formed of chalcogenide fiber or tellurite fiber, and the second amplifying optical fiber 12 is formed of fluoride fiber.

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